

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn) A system for treating a fluid waste;
an RF plasma wave generator that produces waves; and
a conduit that carries the waste past the waves.
2. (Withdrawn) The device of claim 1 further comprising a holding tank upstream of the wave generator, which contains at least some of the waste for at least one hour.
3. (Withdrawn) The device of claim 2 wherein the holding tank contains an inlet that is fluidly downstream of a toilet.
4. (Withdrawn) A municipal waste processing facility that includes a device according to claim 1.
5. (Withdrawn) A ship that includes a device according to claim 3.
6. (Withdrawn) The device of claim 1 further comprising a sewer that carries at least some of the fluid waste to the conduit.
7. (Withdrawn) The device of claim 1 wherein the conduit carries the waste in at least two substantially separate streams past the waves, and then recombines the separate streams.
8. (Withdrawn) The device of claim 1 further comprising a filter fluidly positioned upstream of the RF plasma wave generator.
9. (Withdrawn) The device of claim 1 further comprising a second conduit that carries a portion of the waste in a pathway that bypasses the waves from the RF plasma wave generator.
10. (Withdrawn) The device of claim 1 wherein the RF plasma wave generator has a basic frequency of 0.44 MHz – 40.56 MHz.
11. (Withdrawn) The device of claim 1 wherein the RF plasma wave generator has a modulation frequency of 10-35 kHz.

12. (Previously presented) A method of reducing biological contamination in an amount of waste, comprising:

providing an RF plasma wave generator; and

carrying the waste past waves radiated by the RF plasma wave generator under conditions in which a substantial percentage of the population of a microbe in the waste is inactivated or killed, to produce a treated waste; and

without subjecting the waste directly to a plasma generated by the RF plasma wave generator.

13. (Previously presented) The method of claim 12 in which the substantial percentage is at least 50%.

14. (Previously presented) The method of claim 12 in which the substantial percentage is at least 90%.

15. (Previously presented) The method of claim 12, further comprising treating the waste at a rate of at least 20 l/hr, and discharging the treated waste into a navigable body of water.

16. (Previously presented) The method of claim 12, further comprising treating the waste at a rate of at least 20 l/hr, and discharging the treated waste into a sewer.

17. (Previously presented) The method of claim 12, further comprising treating the waste at a rate of at least 20 l/hr, and discharging the treated waste into a conduit in a municipal waste treatment plant.

18. (Previously presented) The method of claim 12, wherein the step of providing an RF plasma wave generator comprises operating the generator at a basic frequency of 0.44 MHz – 40.56 MHz.

19. (Previously presented) The method of claim 12, wherein the step of providing an RF plasma wave generator comprises operating the generator at a modulation frequency of 10-35 kHz.

20. (Previously presented) The method of claim 12, further comprising treating the waste at a rate of at least 20 l/hr, and wherein the step of carrying the waste past the waves is carried out upon a ship.